

Work Order ID 96308

96308

Page 1

January 23, 2013 7:56:53 AM

Item ID: D3628-3

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Cupped Washer

Start Date: 1/23/13 Start Qty: 500.00

500

Cust Item ID:

Required Date: 2/15/13 Req'd Qty: 500.00

500

Customer:

Reference:

Approvals: Process Plan: CX

Date: 13/01/23 Tooling:

Date:

Run Start *NR1*

QC:

Date: SPC (Y/N):

Date:

Stop *NR2*

Seq	Work Center	Operation Description	Set up Run hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Resp. Stamp
-----	-------------	-----------------------	---------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

D3628

C

100

0.00

100

PURCHASING

Purchasing

Memo

0.00

Purchasing

Issue P/O:

18907

Email or Ship DXF file to vendorLaser
Cut D3628-1 flat pattern and form as per Dwg D3628

Possible Supplier: GFI

Material release note is required

CX 13/01/23 (500)

110

Receive & Inspect for Damage & Mat'l Certs

0.00

110

Packaging

Memo

0.00

Packaging

Ensure material certification is attached

13/2/13 (500)

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____				DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>		AGAINST DEPARTMENT/PROCESS <div style="display: flex; justify-content: space-between;"> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>					
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector		
Doc/Data											
Equip/Tooling											
Operator											
Material											
Setup											
Other											
Process											
Supplier											
Training											
Unapproved											

FAULT CATEGORY				
Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge <input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other	

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Page 2

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Setup Start

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Start Date: 1/23/13

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500

Cust Item ID:

Required Date: 2/15/13

Req'd Qty: 500.00

500

Customer:

Reference:

Run Start

NR1

Approvals:

Process Plan:

Date:

Tooling:

Date:

Stop

NR2

QC:

Date:

SPC (Y/N):

Date:

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120

QC6- Inspect dimensions to drawing

0.00

Simd
130 19

500

120

QC

Memo

Quality Control

130

Identify as per dwg & Stock Location: STC601 0.00

130

Packaging

Memo

0.00

500x

SP
13-2-20

Packaging

140

QC21- Final Inspection - Work Order Release

0.00

140

QC

Memo

0.00

MCS 13-02-21

Quality Control

PL 13-02-20

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION <div style="display: flex; justify-content: space-around;"> <div> Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/> </div> <div> Skid-tube <input type="checkbox"/> Machining <input type="checkbox"/> Thermoforming <input type="checkbox"/> Large Fab <input type="checkbox"/> </div> <div> Crosstube <input type="checkbox"/> Small Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Composite <input type="checkbox"/> </div> <div> Water Jet <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/> Supplier <input type="checkbox"/> </div> <div> Engineering <input type="checkbox"/> Quality <input type="checkbox"/> Other <input type="checkbox"/> </div> </div>	AGAINST DEPARTMENT/PROCESS
--	--	-----------------------------------

Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

Landing Gear <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	General <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions
<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge		
<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other		

Picklist Print

January 23, 2013 7:56:52 AM

Page 1

Work Order ID: 96308

Parent Item: D3628-3

Start Date: 1/23/13

Required Date: 2/15/13

Parent Item Name: Cupped Washer

Start Qty: 500.00

Required Qty: 500.00

Comments: IPP Rev:A New Issue 07-05-28 JLM
IPP Rev:B Removed Powder Coat 07-07-11 JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3628-3P CUPPED WASHER		Purchased	No			110	Each	0.0000	1	500			

1/23/2/15 500

NCR: Yes / No

WORK ORDER NON-CONFORMANCE / UPDATE

DQA: _____ Date: _____

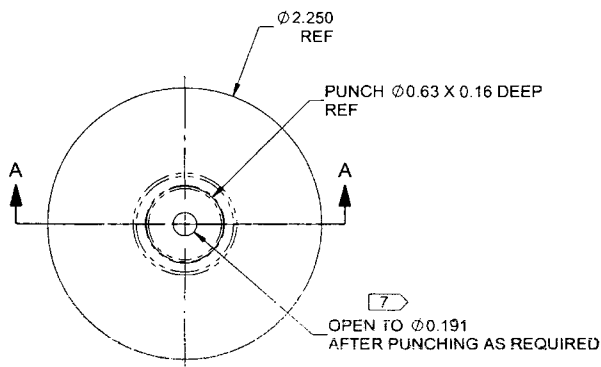
QA Closed: _____ Date: _____

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input type="checkbox"/> Work Order Update <input type="checkbox"/>	AGAINST DEPARTMENT/PROCESS <table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input type="checkbox"/>																

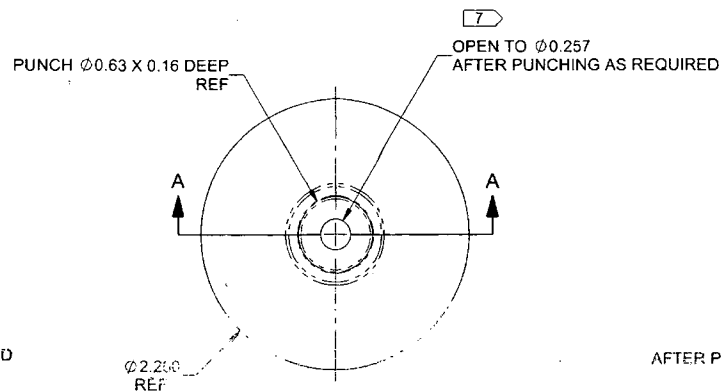
Root Cause	Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data									
Equip/Tooling									
Operator									
Material									
Setup									
Other									
Process									
Supplier									
Training									
Unapproved									

FAULT CATEGORY

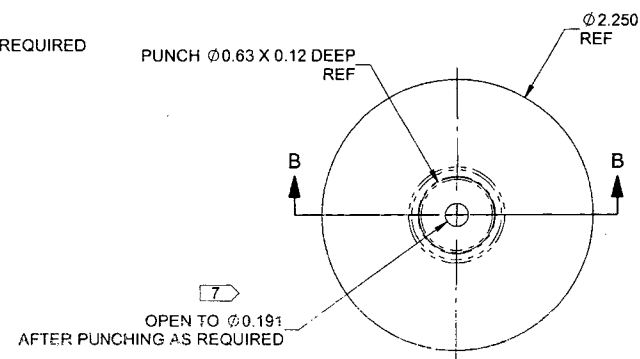
Landing Gear	General	Other
<input type="checkbox"/> Bending	<input type="checkbox"/> Bend	<input type="checkbox"/> Grain
<input type="checkbox"/> Centre Not Concentric to O/S	<input type="checkbox"/> BOM/Route	<input type="checkbox"/> Hardware
<input type="checkbox"/> Cracks	<input type="checkbox"/> Broken/Damaged	<input type="checkbox"/> Inspection Incomplete
<input type="checkbox"/> Crushed/Crimped	<input type="checkbox"/> Burrs	<input type="checkbox"/> Instructions Incomplete/Unclear
<input type="checkbox"/> Cuffs	<input type="checkbox"/> Contamination	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Heat Treat	<input type="checkbox"/> Countersink	<input type="checkbox"/> Mislabeled
<input type="checkbox"/> Inspection Strip in Tube	<input type="checkbox"/> Cut Too Short	<input type="checkbox"/> Misread
<input type="checkbox"/> Ripples in Bend	<input type="checkbox"/> Drill Holes	<input type="checkbox"/> Offset
<input type="checkbox"/> Torque Waves in Extrusion	<input type="checkbox"/> Drawing	<input type="checkbox"/> Out of Calibration
<input type="checkbox"/> Turning Sequence	<input type="checkbox"/> Finish	<input type="checkbox"/> Out of Sequence
<input type="checkbox"/> Wave/Twist in Tube	<input type="checkbox"/> Folio	<input type="checkbox"/> Outside Dimensions
		<input type="checkbox"/> Ovalized
		<input type="checkbox"/> Over/Under tolerance
		<input type="checkbox"/> Part Incorrect
		<input type="checkbox"/> Part Lost/Missing
		<input type="checkbox"/> Part Moved
		<input type="checkbox"/> Positioned Wrong
		<input type="checkbox"/> Power Loss/Surge
		<input type="checkbox"/> Pressure/Forced
		<input type="checkbox"/> Temperature/Cure
		<input type="checkbox"/> Weld
		<input type="checkbox"/> Wrong Stock Pulled
		<input type="checkbox"/> Other



D3628-1 CUPPED WASHER

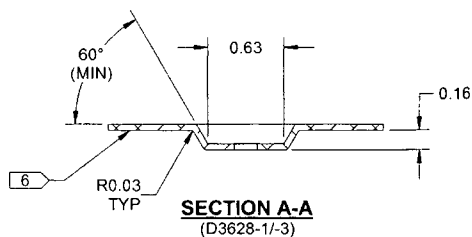


D3628-3 CUPPED WASHER

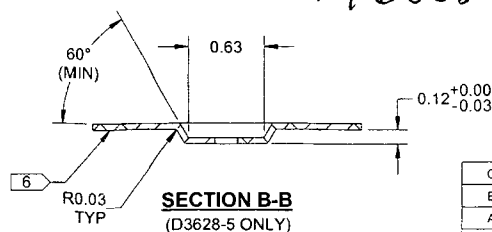


D3628-5 CUPPED WASHER

CH1310123
W10:96308



SECTION A-A
(D3628-1/-3)



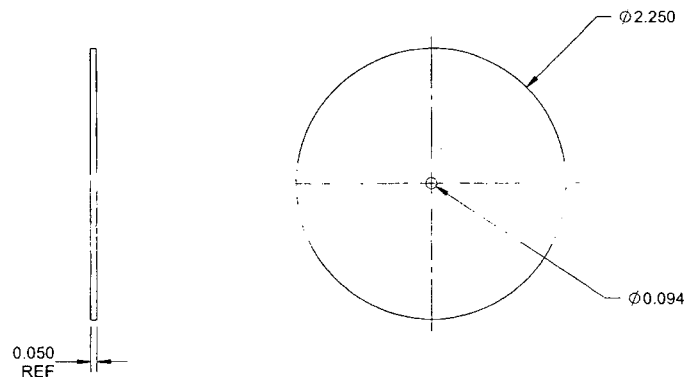
SECTION B-B
(D3628-5 ONLY)

NOTES:

- 1) MATERIAL: MADE FROM D3628-1F
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.5
- 7) WHEN DRILLING OUT THE CENTRE HOLE AFTER PUNCHING, ENSURE THAT THE HOLE IS DRILLED CONCENTRIC TO THE CUPPED AREA WITHIN 0.03
- 8) WEIGHT: 0.02 lbs

RELEASE
2012-05-07

REV.	DESCRIPTION	BY	DATE
C	UPDATE DWG TO CURRENT STD. ADD -5, ZN C1-1.	DC	12.04.19
B	REMOVE POWDER COAT	CB	07.07.09
A	NEW ISSUE	CB	07.06.08
DESIGN	DC	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	DC		
CHECKED	AB	DRAWING NO.	REV. C
MFG. APPR.	BE	D3628	SHEET 1 OF 2
APPROVED	AD	TITLE	SCALE
DE APPR.	AD	CUPPED WASHER	NTS
DATE	12.04.19	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	



D3628-1F FLAT PATTERN

RELEASED
2012-05-07
MP

NOTES:

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, 18 GAUGE (0.050 THICK)
ANNEALED, 2B FINISH
PER MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240
REF DART SPEC M304S18GA
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED
- 5) BREAK ALL SHARP EDGES 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.02 lbs

DESIGN	DL	DART AEROSPACE LTD	
DRAWN	DL	HAWKESBURY, ONTARIO, CANADA	
CHECKED	EB	DRAWING NO.	REV. C
MFG. APPR.	EB	D3628	SHEET 2 OF 2
APPROVED	MP	TITLE	SCALE
DE APPR.	MP	CUPPED WASHER	NTS
DATE	12.04.19	<small>COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE, OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD</small>	



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18907

Purchase Order Date 1/23/13

PO Print Date 1/23/13

Page Number 1 of 1

Order From :

VC-GFI001

GFI
180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

Contact Name

Vendor Phone

514 630 4877

Vendor Fax

514 630 4849

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

PAID
01/30/13

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D3628-1P	CUPPED WASHER	2/15/13 Yes	200.00 Each	FedEx PI collect	\$2.7500	\$550.00
Special Inst: AS PER DWG D3628 REV. C B96307							
2	D3628-3P	CUPPED WASHER	2/15/13 Yes	500.00 Each	FedEx PI collect	\$2.6500	\$1,325.00
Special Inst: AS PER DWG D3628 REV. C B96308							
3	D3628-5P	CUPPED WASHER	2/15/13 Yes	500.00 Each	FedEx PI collect	\$2.6500	\$1,325.00
Special Inst: AS PER DWG D3628 REV. C B96309							

CERTIFICATE OF CONFORMITY
REQ'D UPON DELIVERY

PO Total:

\$3,200.00

MATERIAL CERTIFICATION
REQUIRED

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required - YES NO

Change Nbr: 1

Change Date: 1/23/13



180 AVENUE LABROSSE
POINTE-CLAIRE, QC, CANADA H9R 1A1
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

GFI est une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.



BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON / SHIPPING MEMO NO		PAGE
JR - DV	MO - MQ	AN - YR			
15	02	13	0507453		1/1




VENDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

CODE DE CLIENT / CUSTOMER CODE	N° DE CONTRAT / JOB NO.	VOTRE N° DE COMMANDE / YOUR PURCHASE ORDER NO.	EXPÉDIÉ PAR / SHIP VIA
DART	GFI-0299	0262874	PO18907

QUANTITÉ / QUANTITY	N° DE PIÈCE / PART NO.	DESCRIPTION
500	D3628-3P	CUPPED WASHER ITEM 2 C OF C REQ'D
<p>MFG. JOB# <u>J0962874-001 QTY 500 pcs</u></p> <p>DUE DATE: <u>15 February 2013</u></p> <p></p>		

EXPÉDITEUR / SHIPPER

N° DE BON DE LIVRAISON / SHIPPING MEMO NO



REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION.
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

**CERTIFICATE OF COMPLIANCE
CERTIFICAT DE CONFORMITE**



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. 4 OUR JOB NO. J0262874 SHIPPING MEMO 0507453

ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME	DWG	ISSUE
<u>—</u>	<u>500 PCS</u>	<u>PO18907</u>	<u>D3628-3P</u>	<u>C</u>	<u>CUPPED WASHER</u>	<u></u>	<u>C</u>
MATERIAL		SUPPLIED BY			MAT. REL. NO.		
<u>AMS 5513 304 ANN</u>		<u>TW METALS / ALLEGHENY LUDLUM</u>			<u>H/N 980065</u>		

	PROCESS	PROCESSOR	RELEASE NOTE #
1	<u>FIRST ARTICLE INSPECTION REPORT ON FILE</u>	<u>GFI</u>	<u>NA</u>
2	<u>REF. GFI MANUFACTURING JOB NUMBER J0262874-001 (500 PCS)</u>	<u></u>	<u></u>
3	<u></u>	<u></u>	<u></u>
4	<u></u>	<u></u>	<u></u>
5	<u></u>	<u></u>	<u></u>
6	<u></u>	<u></u>	<u></u>
7	<u></u>	<u></u>	<u></u>
8	<u></u>	<u></u>	<u></u>
9	<u></u>	<u></u>	<u></u>

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 15 FEBRUARY 2013

G.F.I. Q.C. REP. [Signature]





ORDER NO.: 03306283

FROM: CINC

PAGE 1

CUST NUMBER: 1203148

NET WGT:

252.000

REQ. DATE: 02/06/13 CONFIRMED

SOLD TO:

SHIP TO:

GFI INC

GFI INC

180 AVE. LABROSSE

180 AVE LABROSSE

POINTE CLAIRE QC

POINTE CLAIR QC

CANADA

CANADA

CN H9R 1A1

CN H9R 1A1

SALESPERSON:

DEANNA PIMM

TERMS:

1% 10 NET 30

F.O.B.:

SHIPPING POINT

CUST ORD NO.:

0081864

SHIP BY:

01/30/13

VIA:

ROADWAY EXPRES

FREIGHT:

COLLECT

RELEASE NO.:

RECEIVING PHONE:

514 630-4877

WIDTH

LENGTH

LINE ITEM DESCRIPTION

0001 51073 304 S/S SHEET * AMS 5513 .050

QTY: 4.000 EA

WT:

252.000 PC:

36

120

PART#: TS050361204A

4 SHP:

4.000 EA

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99

Export License: NLR

Expiration Date: 0/00/00

PO: 49282420 HT: 980065

PC: 4

SLB/CL: TEST#8797948

MLT: UNITED STATES MFG: UNITED STATES

SHIP VIA YELLOW COLLECT

CLEAR CUSTOMS THRU CONSIGNEE'S BROKER: DHL GLOBAL FORWARDING

ISABELLE 514-734-4534 OR SYLVAIN 514-734-4527

FAX 514-344-8705



ORDER NO.: 03306283 FROM: CINC

CUST NUMBER: 1203148 NET WGT: 252.000 REQ. DATE: 02/06/13 CONFIRMED
SOLD TO: SHIP TO:
GFI INC GFI INC
180 AVE. LABROSSE 180 AVE LABROSSE
POINTE CLAIRE QC PIONTE CLAIR QC
CANADA CANADA
CN H9R 1A1 CN H9R 1A1

SALESPERSON: DEANNA PIMM
TERMS: 1% 10 NET 30
F.O.B.: SHIPPING POINT
CUST ORD NO.: 0081864
VIA: ROADWAY EXPRES
FREIGHT: COLLECT
RELEASE NO.:
RECEIVING PHONE: 514 630-4877
SHIP BY: 01/30/13
7640 REINHOLD DR
CINCINNATI OH 45237

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 1/30/13

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. version contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON THE REVERSE SIDE FOR YOUR CAREFUL REVIEW.

NOTICE OF SHIPMENT/
PACKING LIST



CERTIFICATE OF TEST

AL 6166-4 1211

CUST. ORD. NO. & DATE
M 49282420
FORMS DISTRIBUTION
SOLD TO
TW METALS INC
PO BOX 644
EXTON

08/23/12 974093
PA 19341

VANDERGRIFF, PA.
PRIME SEC.
DSO DSO
56

SHIPPER NO. 556118
GOVT CONTRACT
PRODUCT CODE 13020102060000
MILL ORDER NUMBER 30-082-537
SHIPPING LOCATION PA
SHIP TO
SPECIALTY METALS PROCESSING
837 SEASONS ROAD
STOW
OH 44224

DATE SHIPPED 10/15/12
INVOICE 659294

GRADE AND SPECIFICATIONS
"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE (AMS 5513J) (ASTM-A-666-10) (ASME-SA-240 ED 2010) (ASTM-A-240-12) (CP49-7.4.2-005 REV 7) (6/14/12 EXCEPT TO CP49-7.4.2-005)

ITEM PCS DIMENSIONS W/G/L
001 1 36./0.050/2346.
C CUST IDENTITY 47252
1 SKID

HEAT # COIL # TEST # GROSS TARE NET THEO TAG #/ CD SKID #
980065 09112N183 8797948 14090 50 14040 893289
14090 50 14040

DIST: MAIL AND FAX ACK, S/N AND INVOICE TO "ATTN: CARA TURNER" @ 484-359-9236. FAX IN ADVANCE OF SHIPMENT ALL CT'S TO 484-359-9236. ATTN: CARA TURNER

TYPE HEAT/TEST
HEAT 980065
TEST LOCATION

MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI	MI
0.05	1.19	0.034	0.0004	0.36	18.20	8.03	0.45	0.52	0.08						

ITEM TEST NO
001 8797948

TEST LOCATION

ITEM TEST NO
001 8797948

YIELD PSI *	TENSILE PSI	% ELONG IN 2"	% R/A	HARDNESS NR	BEND T PASS	CORROSION A 262 PR E	GRAIN SIZE NR	HARDENABILITY NR
T 52000.	96500.	53.		86.HRBW	T PASS	PASS		
TC	TC	TC		86.HRBW	TC	TC		

NR = DATA NOT REQUIRED
GRADE VERIFICATION WAS CARRIED OUT SPECTROSCOPICALLY
PAGE 01 - CONTINUED ON PAGE 02

CONSIGNEE - Please Note - This consignment was turned over to carrier in first class condition, being correctly loaded at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-228-8880. CAUTION: Processing that creates fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING

Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant: 724-228-8880. Attention: les traitements entraînent la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgment.

Stephen Wolf, Director, Corporate Quality Assurance

TW METALS
M49282420
Oct 17 2012
ACCEPTED BY

**NOTICE OF SHIPMENT/
PACKING LIST**



CERTIFICATE OF TEST

AL 6188-4 1211

CUST. ORD. NO. & DATE M 49282420		CUST. CODE 08/23/12 974093		VANDERGRIFF, PA.		SHIPPER NO. 556118		PRODUCT CODE 13020102060000		MILL ORDER NUMBER 30-082-537		DATE SHIPPED 10/15/12	
FORMS DISTRIBUTION SOLD TO 4 SHIP TO 1		REPEAT ORDER 95434-1		DO RATE 38		GOVT CONTRACT		MATERIAL 1121		SHIPPING LOCATION VANDERGRIFF PA		INVOICE 659294	
TW METALS INC PO BOX 644 EXTON		PRIME SEC. DSO DSO 56		SHIP TO SPECIALTY METALS PROCESSING 837 SEASONS ROAD STOW		OH 44224							

GRADE AND SPECIFICATIONS

"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE (AMS 5513J) (ASTM-A-666-10) (ASME-SA-240 ED 2010) (ASTM-A-240-12) (CP49-7.4.2-005 REV 7) (6/14/12 EXCEPT TO CP49-7.4.2-005)

DIN EN 10204:2005 - 3.1 CERTIFICATE DOES NOT INDICATE PED APPROVAL FOR THIS MATERIAL.

ATI ALLEGHENY LUDLUM DOES NOT USE MERCURY IN THE TESTING OR PRODUCTION OF ITS PRODUCTS.

MATERIAL IS OF USA MELT AND MANUFACTURE.

NO WELDS/WELD REPAIRS PERFORMED.

THIS DIN EN 10204:2005 - 3.1 CERTIFICATE OF TEST SHALL NOT BE REPRODUCED EXCEPT IN FULL. FEDERAL LAW PROHIBITS THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE AND MAY BE PUNISHABLE AS A FELONY UNDER FEDERAL LAW. ATI AL HOLDS SEVERAL QUALITY CERTIFICATIONS THAT INCLUDE ISO-9001, AS9100, NADCAP, AND ISO/IEC 17025. MATERIAL WAS MANUFACTURED IN ACCORDANCE WITH THE ATI AL QUALITY MANUAL REVISION 20 DATED 02/24/2012.

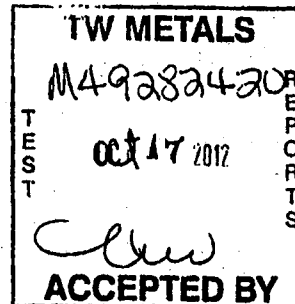
ATI ALLEGHENY LUDLUM PERFORMS CHEMICAL ANALYSIS BY THE FOLLOWING TECHNIQUES:

C, S BY COMBUSTION/INFRARED
N, O, H BY INERT FUSION/THERMAL CONDUCTIVITY
MN, P, SI, CR, NI, MO, CU, CB, CO, V BY WDXRF
B BY OES
AL AND TI (>=0.10%) BY WDXRF, OTHERWISE BY OES
PB, BI, AG BY GFAA

THE NUMERIC CODES SHOWN UNDER MELT SOURCE CAN BE INTERPRETED AS FOLLOWS:

1. - MATERIAL MELTED, ROLLED AND TESTED IN THE UNITED STATES.
2. - FOREIGN MELT; ROLLED AND TESTED IN THE UNITED STATES.

PAGE 02 - CONTINUED ON PAGE 03



10/15/12 09:28:34

CONSIGNEE - Please Note-This consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceased. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

WARNING Material Safety Data Sheets for this product have been supplied to your Purchasing Department. For an additional copy phone 724-226-5586. CAUTION: Processing that makes fumes, dust, or solutions may cause lung disease. See Material Safety Data Sheets for further information.

WARNING Les fiches d'information-sécurité de ce produit ont été fournies à votre département chargé des achats. Pour obtenir des exemplaires supplémentaires veuillez téléphoner au numéro suivant 724-226-5586. Attention: les traitements entraînant la production de vapeurs, poussières, ou solutions peuvent être cause de maladies pulmonaires. Pour plus de renseignements se référer aux fiches d'information-sécurité.

The above is a true copy of data on file. The material and test results conform to the sales contract and specification(s) as set forth in Allegheny Ludlum's Order Acknowledgment.

Stephen Wolf
Director, Corporate Quality Assurance

NOTICE OF SHIPMENT/
PACKING LIST



CERTIFICATE OF TEST

AL 6168-4 1211

CUST. ORD. NO. & DATE

M 49282420

FORMS DISTRIBUTION
SOLD TO → 4 SHIP TO → 1

SOLD TO
TW METALS INC
PO BOX 644
EXTON

08/23/12
PA 19341

CUST. CODE

974093

VANDERGRIFF, PA.

REPEAT ORDER 95434-1
PRIME SEC.
DSO DSO
56

SHIPPER NO

556118

GOVT CONTRACT

PRODUCT CODE

13020102060000

1121 VANDERGRIFF
SHIP TO

SPECIALTY METALS PROCESSING
837 SEASONS ROAD
STOW

MILL ORDER NUMBER

30-082-537

SHIPPING LOCATION

PA

DATE SHIPPED

10/15/12

INVOICE

659294

OH 44224

GRADE AND SPECIFICATIONS

"ATI 304" STAINLESS STEEL SHEET C R COILS ANNEALED 2B FIN 3 EDGE (AMS 5513J) (ASTM-A-240 ED 2010) (ASTM-A-240-12) (CP49-7.4.2-005 REV 7) (6/14/12 EXCEPT TO CP49-7.4.2-005)

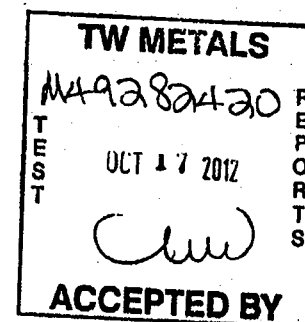
CARRIER - STIVASON & SONS TRKG., INC

TESTING WAS PERFORMED AT THE FOLLOWING LOCATIONS:

MI = ATI-ALLEGHENY LUDLUM; 950 TENTH STREET; MIDLAND, PA 15059

TC = ATI-ALLEGHENY LUDLUM; 1300 PACIFIC AVENUE; NATRONA HEIGHTS, PA 15065

FOR ACCESS TO ONLINE CERTIFICATES OF TEST
REGISTER AT WWW.ALCEXTRA.COM



PAGE 03 - FINAL PAGE.

CONSIGNEE - Please Note - The consignment was turned over to carrier in first class condition, being correctly loaded, at which time our responsibility for loss or damage in shipment ceases. For your protection please examine shipment as it arrives. If any shortage or damage is discovered, have a full description made by transportation agent on waybill before signing.

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WARNING

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Stephen Wortz - Director, Corporate Quality Assurance

10/15/12 09:28:34